

## **Excellent Integrated System Limited**

Stocking Distributor

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[Grayhill, Inc.](#)  
[58J9A60-01-1-04N](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)



## Keylock Rotary Switches

### SERIES 58 Single Deck, Antistatic

#### LOCK FEATURES

- Minimum Space Behind Panel
- 15,000 Vdc Static Protection
- 5 Tumbler-Plate Security
- In-Panel Key Recoding

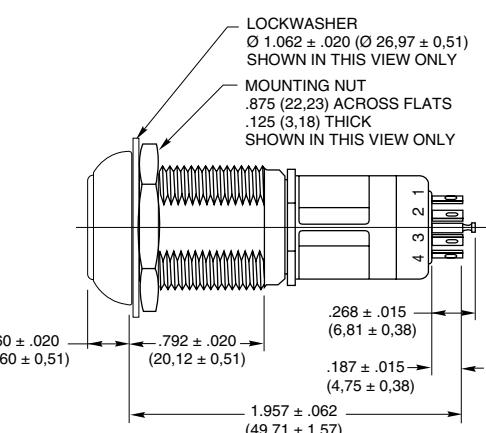
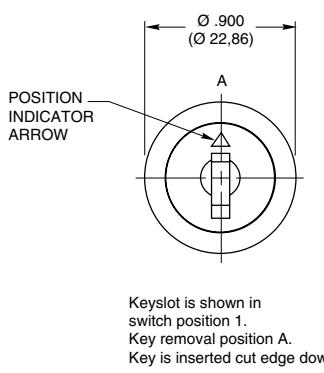
#### SWITCH FEATURES

- Economical
- Solder Lug or PC Mount
- 36°, 45°, 60°, or 90° Throws
- 1 or 2 Poles Per Switch
- Up to 10 Positions for 1 Pole
- 200 mA for 25,000 Cycles

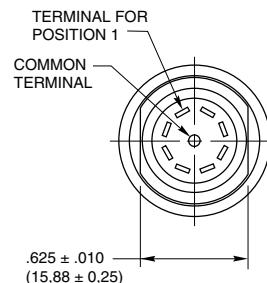


#### DIMENSIONS in inches (and millimeters)

##### Standard Style

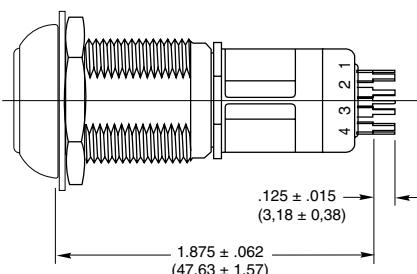
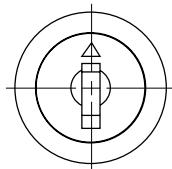


##### 36°, 45°, 60°, or 90° Angle of Throw

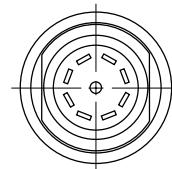


##### PC Mount Style

Dimensions not shown are the same as above.



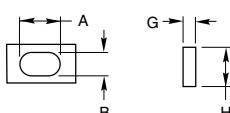
##### 36°, 45°, 60, or 90° Angle of Throw



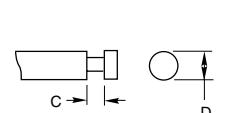
Grayhill part number and date code marked on label. Customer part number marked on request.

#### TERMINAL DETAIL

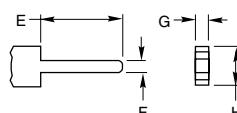
##### Solder Lug



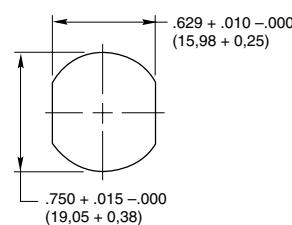
##### Solder Lug Common



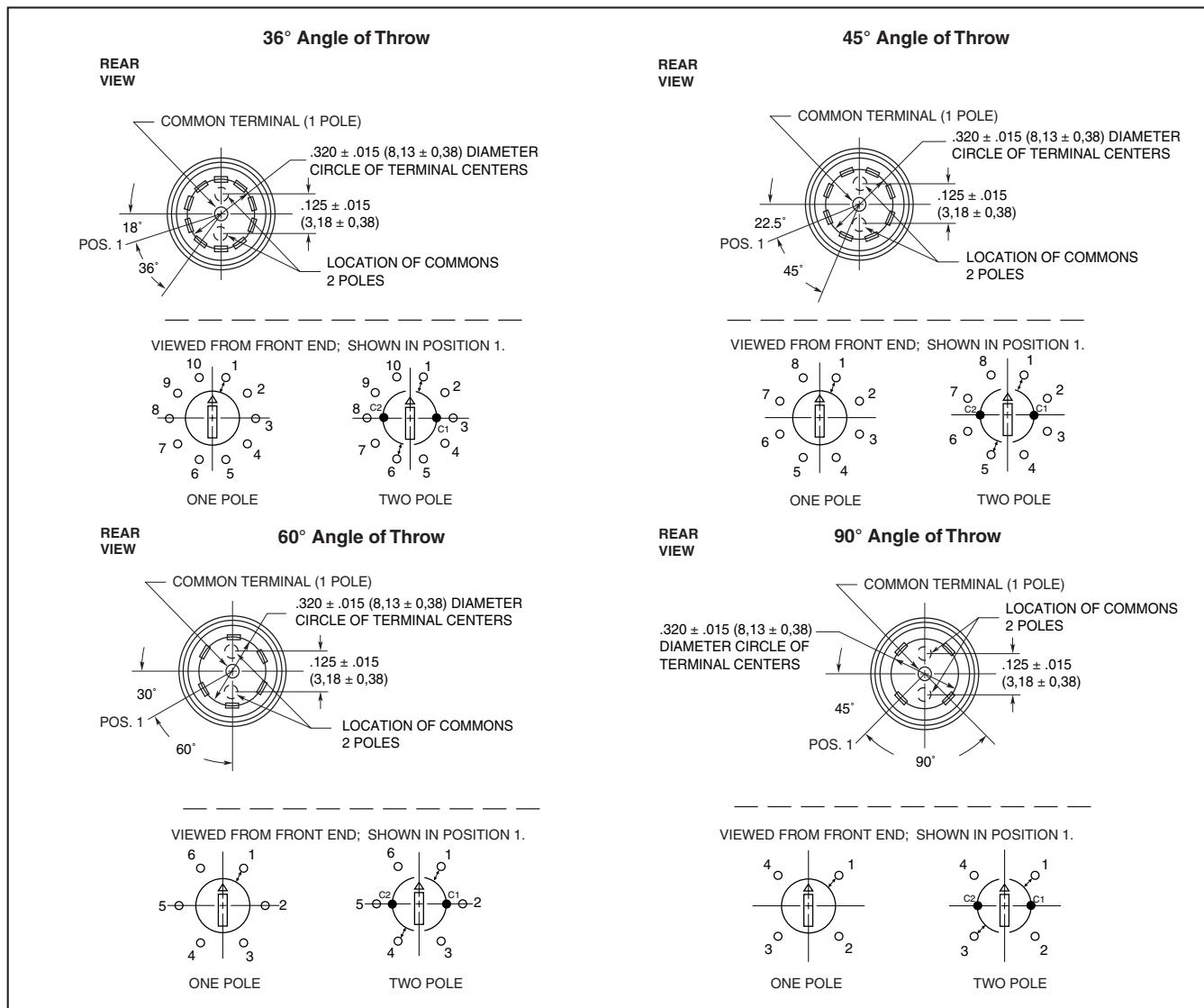
##### PC Mount



#### RECOMMENDED PANEL CUT



## CIRCUITRY



## LOCK SPECIFICATIONS

### General Characteristics

**Mounting:** By bushing, nut and lockwasher  
**Keying:** All locks keyed alike except by special order  
**Orientation of Keylock Switch:** Lock flats on both sides with key upright (cut side down) in position 1.

### Key Removals:

36° Throw Switch	At every position or At 0° & 180°
45° Throw Switch	At every position or At 0°, 90°, 180°, 270°
60° Throw Switch	At every position or At 0°, 180°
90° Throw Switch	At every position or At 0°, 180°
Optional pulls	Contact Grayhill

### Materials & Finishes

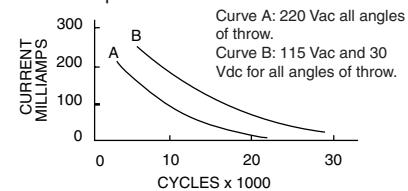
**Keys:** Brass; 2 supplied  
**Lock Barrel & Plug:** Zinc, clear chromate  
**Lockwasher:** Steel, tin zinc plated  
**Mounting Nut:** Steel, nickel-plated  
**Tumbler Plates:** Brass

## SWITCH SPECIFICATIONS

### Electrical Characteristics

Chart is shown for non-shorting contacts and resistive load and for the life limiting criteria indicated below. The data for the curve was measured at sea level, 25°C and 68% relative humidity. Contact Grayhill for more information

If any of the following is true: life limiting criteria are more critical than those listed; more cycles of operation are required; a larger make and break current is required; the operating environment includes elevated temperatures or reduced pressures.





## Keylock Rotary Switches

### SWITCH SPECIFICATIONS *Continued*

<b>Contact Resistance:</b> Initially: less than 10 mΩ End of life: less than 50 mΩ	<b>Anti-Static Voltage:</b> Anti-static types tested to withstand 15,000 Vdc	<b>Materials and Finishes</b> <b>Switch Base:</b> Thermoset plastic <b>Switch Housing:</b> Nylon <b>Detent Rotor:</b> Nylon <b>Detent Balls:</b> Steel, nickel-plated <b>Detent Springs, and Contact Springs:</b> Stainless steel <b>Common Ring:</b> Brass, gold plate over silver plate <b>Terminals:</b> Brass, gold over silver and nickel plate <b>Rotor Contact:</b> Precious metal, gold alloy
<b>Insulation Resistance:</b> (Between mutually insulated parts) Initially: 50,000 MΩ Minimum: 10,000 MΩ	<b>Mechanical Characteristics</b> <b>Switching Mode:</b> Shorting (make before break) or non-shorting (break before make) as limited by the Choices chart <b>Type of Contact:</b> Wiping <b>Number of Terminals:</b> All switches are provided with the full circle of terminals regardless of the number of active positions <b>Stop Strength:</b> 1.70 Nm maximum (15.0 in-lbs)	
<b>Breakdown Voltage:</b> (Between mutually insulated parts) more than 600 Vac		
<b>Life Expectancy:</b> Per chart; cycle is 1 rotation thru all active positions plus a full return.		
<b>Carry Current:</b> 6A; maximum temperature rise 20°C	<b>Switching Torque:</b> 8 to 16 in-ozs	

### CHOICES AND LIMITATIONS

Lock Style and Description*	Switch Style and Description	Angle of Throw	No. Of Decks	Poles/ Deck	Positions Per Pole**	Shorting or Non-Shrtg.
<b>Series 58J Switches</b>						
<b>J4: Standard-Key pulls at Position 1 and at 90 Degree Increments</b>	<b>A</b> = Standard, Solder Lugs <b>P</b> = Standard, PC Mount	45°	1	1 2	02 to 08 02 to 04	N or S N or S
		36°	1	1 2	02 to 10 02 to 05	N or S N or S
<b>J8: Standard-Key Pulls at Each Position</b>	<b>A</b> = Standard, Solder Lugs <b>P</b> = Standard, PC Mount	45°	1	1 2	02 to 08 02 to 04	N or S N or S
		90°	1	1 2	02 to 04 02	N N
<b>J9: Standard-Key Pulls at Position 1 and at 180 Degrees</b>	<b>A</b> = Standard, Solder Lugs <b>P</b> = Standard, PC Mount	36°	1	1 2	02 to 10 02 to 05	N or S N or S
		45°	1	1 2	02 to 08 02 to 04	N or S N or S
		60°	1	1 2	02 to 06 02 to 03	N N
		90°	1	1 2	02 to 04 02	N N

\*Standard Keylock has anti-static protection. All keylock versions available without anti-static protection, with a reduced overall body length. Contact Grayhill for more information.

\*\*For single pole switches with maximum positions, specify continuous rotation or fixed stop when ordering.

### ORDERING INFORMATION

<b>Series</b>	58J
<b>Lock Style:</b> per Choices Chart J4, J8, J9	
<b>Switch Style:</b> per Choices Chart A or P	
<b>Angle of Throw:</b> 36, 45, 60 or 90 (per Choices chart)	
<b>Number of Decks:</b> 01	
<b>Poles per Deck:</b> = 1 or 2 (per Choices chart)	
<b>Positions per Pole:</b> 02 thru 10 (per Choices chart)	
<b>Type of Contacts:</b> (per Choices chart)	
N = Non-shorting	
S = Shorting	
<b>Stop Arrangement Suffix:</b>	
(needed only for 1-pole switches with maximum positions)	
F = Fixed stop between last and first positions	
*Leave blank for continuous rotation	
<b>58J8A36-01-1-10N-F</b>	

**Available from your local Grayhill Distributor.** For prices and discounts, contact a local Sales Office, an authorized local Distributor or Grayhill.